YORK®	AIR-COOLED LIQUID CHILLERS HERMETIC SCROLL 60 HZ	
RENEWAL PARTS	New Release	Form: 150.62-RP6 (603)

MODELS YCAL0014, 0020, 0024, 0030, 0034, 0040, 0042, 0044, 0050, 0060, 0064, 0070, 0074, AND YCAL0080
STYLE "B"

29302A

EPA Energy BUILDINGS ALLY

10 - 70 TON
35 - 246 Kw
60 Hz

200-3-60
230-3-60
315-3-60
460-3-60
575-3-60
MODELS ONLY

FORM 150.62-RP6 (603)

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WARNING

HIGH VOLTAGE
Is used in the operation of this equipment.
DEATH OR SERIOUS INJURY
may result if personnel fail to observe safety precautions.

Work on electronic equipment should not be undertaken unless the individual(s) have been trained in the proper maintenance of equipment and is (are) familiar with its potential hazards.

Shut off power supply to the equipment before beginning work and follow lockout procedures. When working inside equipment with power off, take care to discharge every capacitor likely to hold dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

LOW VOLTAGE
DO NOT be misled by the term "low voltage." Voltages as low as 50 volts may cause death.

UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA

BASIC PART NUMBER

1 2 3 4	5 6 7 8	9	10	11 12 13	14 15
BASE PRODUCT TYPE	NOMINAL CAPACITY	UNIT DESIGNATOR	REFRIGERANT	VOLTAGE/STARTER	DESIGN/DEVELOPMENT LEVEL

PART NUMBER – LETTER CODES

YCAL0060EC28XBA

Y C A L (1 2 3 4): Y: YORK; C: Chiller; A: Air Cooled; L: Scroll

 # # # # (5 6 7 8): Tons/Kw 0014 to 0080

S R E (9): S: Standard Unit; R: Heat Pump; E: High Efficiency

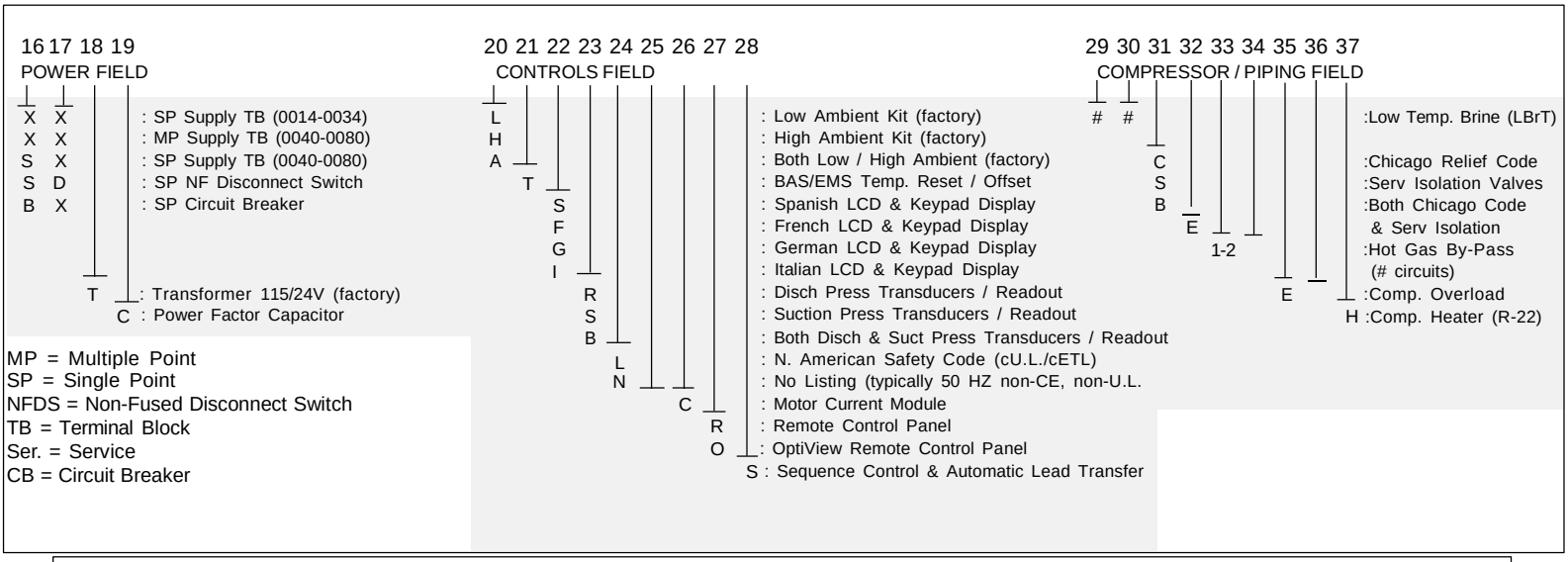
C (10): C: R-22

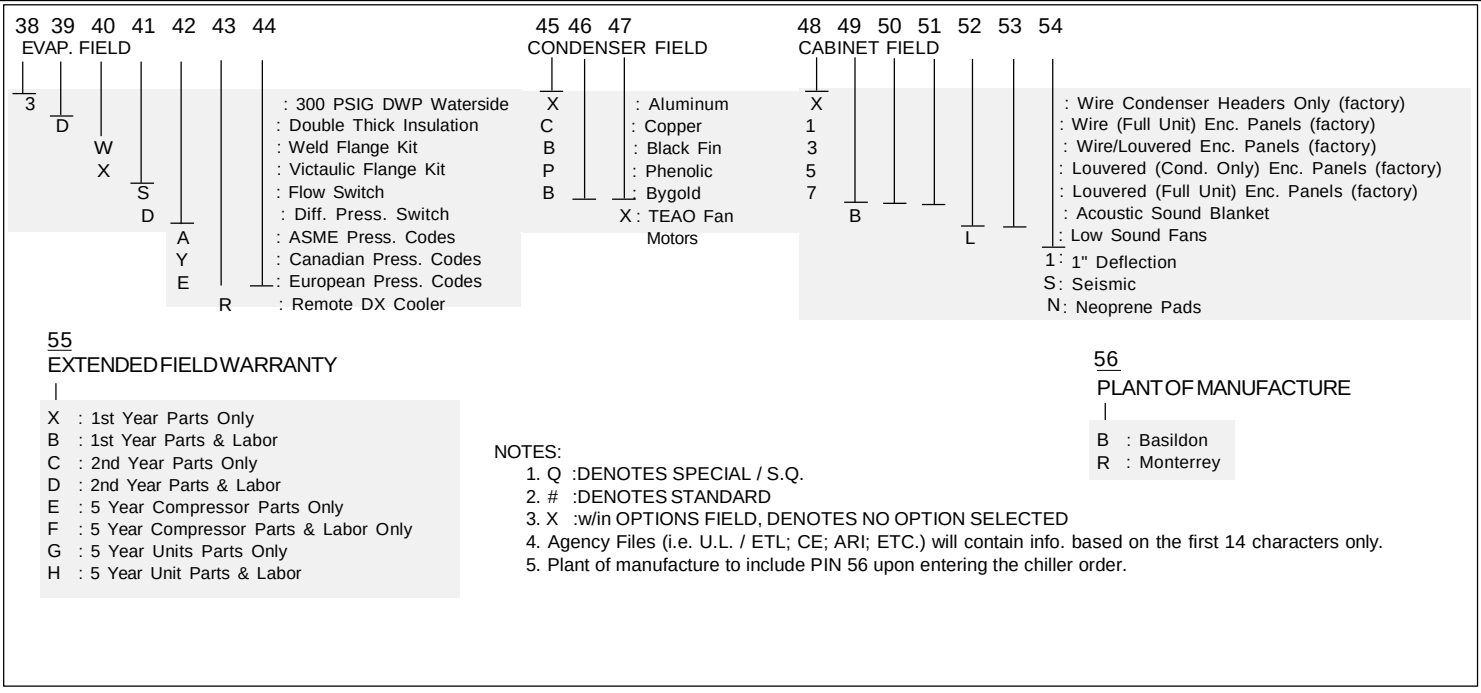
1 2 4 4 5 (11 12): 17: 200/3/60; 28: 230/3/60; 40: 380/3/60; 46: 460/3/60; 58: 575/3/60

X (13): X: Across the Line

B (14): B: Design Series B

A (15): A: Engineering Change or PIN Level


16 17 18 19
POWER FIELD
X X : SP Supply TB (0014-0034)
X X : MP Supply TB (0040-0080)
S X : SP Supply TB (0040-0080)
S D : SP NF Disconnect Switch
B X : SP Circuit Breaker
T : Transformer 115/24V (factory)
C : Power Factor Capacitor
MP = Multiple Point
SP = Single Point
NFDS = Non-Fused Disconnect Switch
TB = Terminal Block
Ser. = Service
CB = Circuit Breaker
20 21 22 23 24 25 26 27 28
CONTROLS FIELD
L : Low Ambient Kit (factory)
H : High Ambient Kit (factory)
A : Both Low / High Ambient (factory)
T : BAS/EMS Temp. Reset / Offset
S : Spanish LCD & Keypad Display
F : French LCD & Keypad Display
G : German LCD & Keypad Display
I : Italian LCD & Keypad Display
R : Disch Press Transducers / Readout
S : Suction Press Transducers / Readout
B : Both Disch & Suct Press Transducers / Readout
L : N. American Safety Code (cU.L./cETL)
N : No Listing (typically 50 HZ non-CE, non-U.L.
C : Motor Current Module
R : Remote Control Panel
O : OptiView Remote Control Panel
S : Sequence Control & Automatic Lead Transfer
29 30 31 32 33 34 35 36 37
COMPRESSOR / PIPING FIELD
:Low Temp. Brine (LBrT)
C :Chicago Relief Code
S :Serv Isolation Valves
B :Both Chicago Code & Serv Isolation
E :Hot Gas By-Pass (# circuits)
1-2
E :Comp. Overload
H :Comp. Heater (R-22)


38 39 40 41 42 43 44
EVAP. FIELD
3 : 300 PSIG DWP Waterside
D : Double Thick Insulation
W : Weld Flange Kit
X : Victaulic Flange Kit
S : Flow Switch
D : Diff. Press. Switch
A : ASME Press. Codes
Y : Canadian Press. Codes
E : European Press. Codes
R : Remote DX Cooler
45 46 47
CONDENSER FIELD
X : Aluminum
C : Copper
B : Black Fin
P : Phenolic
B : Bygold
X : TEAO Fan Motors
48 49 50 51 52 53 54
CABINET FIELD
X : Wire Condenser Headers Only (factory)
1 : Wire (Full Unit) Enc. Panels (factory)
3 : Wire/Louvered Enc. Panels (factory)
5 : Louvered (Cond. Only) Enc. Panels (factory)
7 : Louvered (Full Unit) Enc. Panels (factory)
B : Acoustic Sound Blanket
L : Low Sound Fans
1 : 1" Deflection
S : Seismic
N : Neoprene Pads
55
EXTENDED FIELD WARRANTY
X : 1st Year Parts Only
B : 1st Year Parts & Labor
C : 2nd Year Parts Only
D : 2nd Year Parts & Labor
E : 5 Year Compressor Parts Only
F : 5 Year Compressor Parts & Labor Only
G : 5 Year Units Parts Only
H : 5 Year Unit Parts & Labor
56
PLANT OF MANUFACTURE
B : Basildon
R : Monterrey

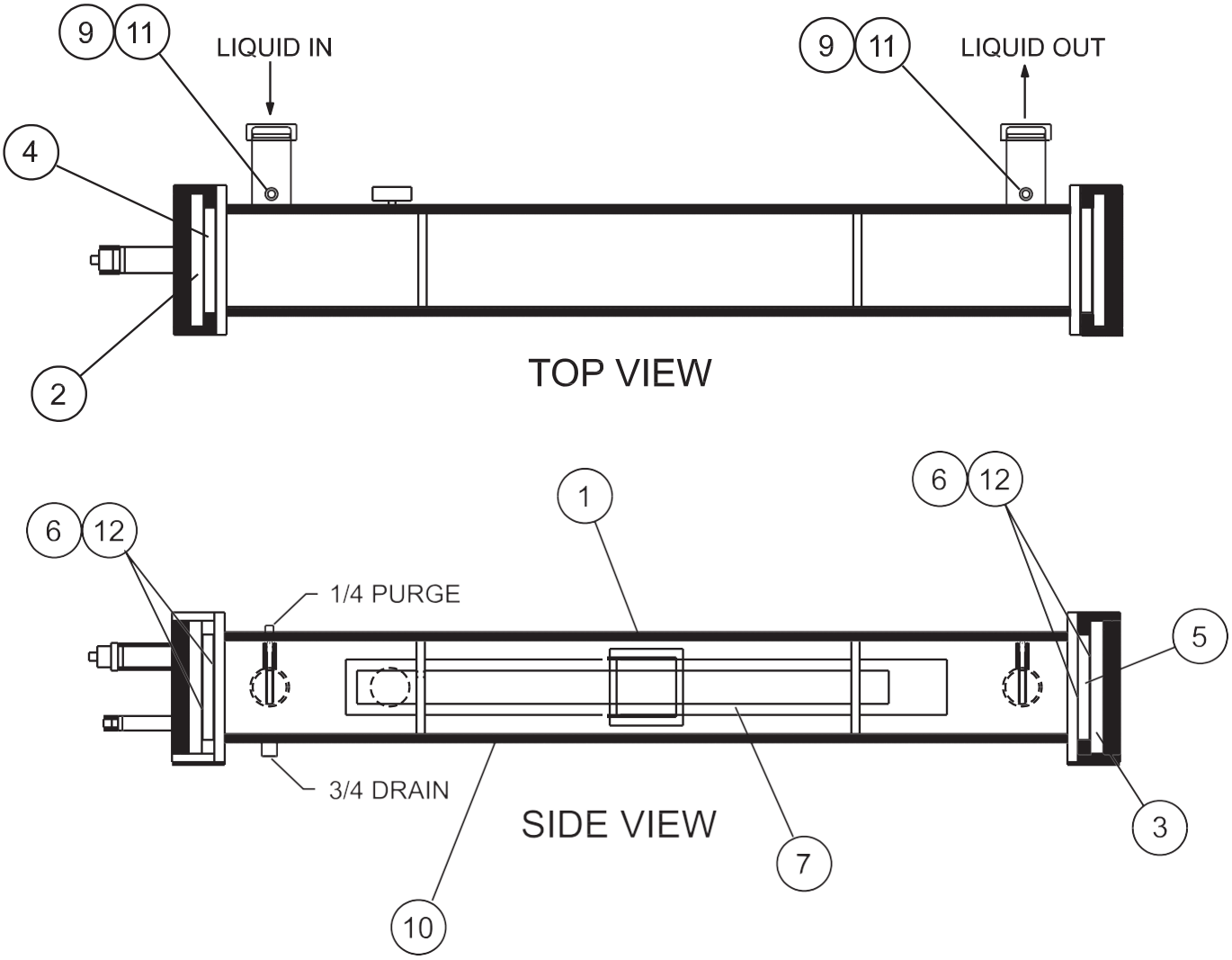
NOTES:

1. Q :DENOTES SPECIAL / S.Q.
2. # :DENOTES STANDARD
3. X :w/in OPTIONS FIELD, DENOTES NO OPTION SELECTED
4. Agency Files (i.e. U.L. / ETL; CE; ARI; ETC.) will contain info. based on the first 14 characters only.
5. Plant of manufacture to include PIN 56 upon entering the chiller order.

FORM 150.62-RP6 (603)

EVAPORATOR COMPONENTS

Service Note: Pin Location 38 in Model Number will be
"X" for 150# cooler.
"3" for 300# cooler.



FLOW SWITCHES:
Standard 150# DWP cooler - 024-26116-000
Optional 300# DWP cooler - 024-12144-000

30968-000

FIG. 1 –EVAPORATOR COMPONENTS - MODELS YCAL0014 AND YCAL0020 SHOWN
(REF. TABLES 1 AND 2, PAGES 5 AND 6)

EVAPORATOR COMPONENTS (CONT'D)

TABLE 1 – EVAPORATOR COMPONENTS - 150 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0014 & 0020	UNIT MODEL YCAL0024	UNIT MODEL YCAL0030 & 0034
1	1	Evaporator, less Heater & Insulation (Items 2 thru 6)	150	375-44214-000 (8" X 72")	375-44212-000 (8" X 78")	375-46006-000 (8" X 90")
2	1	Head, Conn. End	ALL	375-44209-000	375-44209-000	375-46012-000
3	1	Head, Back End	ALL	075-31716-000	075-31716-000	075-46017-000
4	1	Baffle, Pass, Conn. End	ALL	376-60141-000	376-60141-000	075-46014-000
5	1	Baffle, Pass, Back End	ALL	076-60140-000	076-60140-000	075-46009-000
6	4	Gasket, Pass Baffle and Head	ALL	075-38540-000	075-49378-000	075-49362-000
7	1	Heater, Cooler 180 Watt	ALL	025-27995-001	025-27995-001	025-27995-002
9	2	Well, Thermo	ALL	026-37512-000	026-37512-000	026-32328-000
10	-	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000	010-05997-000
	-	Insulation (1 1/2" x 49" x 65")	ALL	010-05998-000	010-05998-000	010-05998-000
11	2	Sensor, Water Temp.	ALL	025-29964-000	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000	013-03311-000	013-03311-000

FORM 150.62-RP6 (603)

TABLE 1 (CONT'D) – EVAPORATOR COMPONENTS - 150 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0040, 0042 0044, 0050 & 0060	UNIT MODEL YCAL0064, 0070 & 0074	UNIT MODEL YCAL0080
1	1	Evaporator, less Heater & Insulation (Items 2 thru 6)	150	375-46546-000 (10" x 90")	375-46542-000 (12" x 104")	375-46535-000 (12" x 104")
2	1	Head, Conn. End	ALL	375-43598-000	375-46210-000	375-44348-000
3	1	Head, Back End	ALL	075-44342-000	075-46215-000	075-44321-000
4	1	Baffle, Pass, Conn. End	ALL	375-43597-000	375-46209-000	375-44338-000
5	1	Baffle, Pass, Back End	ALL	375-43596-000	375-46208-000	375-44337-000
6	4	Gasket, Pass Baffle and Head	ALL	075-49369-000	075-49361-000	075-49365-000
7	1	Heater, Cooler 280 or 420 Watt	ALL	025-22691-000	025-22692-000	025-22691-000
9	2	Well, Thermo	ALL	026-32328-000	026-32328-000	026-32328-000
10	-	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000	010-05997-000
	-	Insulation (1 1/2" x 49" x 65")	ALL	010-05998-000	010-05998-000	010-05998-000
11	2	Sensor, Water Temp.	ALL	025-29964-000	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000	013-03311-000	013-03311-000

EVAPORATOR COMPONENTS (CONT'D)

TABLE 2 – EVAPORATOR COMPONENTS - 300 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0014 & 0020	UNIT MODEL YCAL0024	UNIT MODEL YCAL0030 & 0034
1	1	Evaporator, less Heater & Insulation (Items 2 thru 6)	300	375-41455-000 (8" X 72")	375-41456-000 (8" X 78")	375-46577-000 (8" X 90")

2	1	Head, Conn. End	ALL	375-41461-000	375-41461-000	375-46012-000
3	1	Head, Back End	ALL	075-31716-000	075-31716-000	075-46017-000
4	1	Baffle, Pass, Conn. End	ALL	376-60141-000	376-60141-000	075-46014-000
5	1	Baffle, Pass, Back End	ALL	076-60140-000	076-60140-000	075-46009-000
6	4	Gasket, Pass Baffle and Head	ALL	075-49378-000	075-49378-000	075-49362-000
7	1	Heater, Cooler 180 Watt	ALL	025-27995-001	025-27995-001	025-27995-002
9	2	Well, Thermo	ALL	026-37512-000	026-37512-000	026-32328-000
10	-	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000	010-05997-000
	-	Insulation (1 1/2" x 49" x 65")	ALL	010-05998-000	010-05998-000	010-05998-000
11	1	Sensor, Water Temp.	ALL	025-29964-000	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000	013-03311-000	013-03311-000

TABLE 2 (CONT'D) – EVAPORATOR COMPONENTS - 300 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0040, 0042 0044, 0050 & 0060	UNIT MODEL YCAL0064, 0070 & 0074	UNIT MODEL YCAL0080
1	1	Evaporator, less Heater & Insulation (Items 2 thru 6)	300	375-46575-000 (10" x 90")	375-46571-000 (12" x 104")	375-46567-000 (12" x 104")
2	2	Head, Conn. End	ALL	375-43598-000	375-46210-000	375-44348-000
3	1	Head, Back End	ALL	075-44342-000	075-46215-000	075-44321-000
4	1	Baffle, Pass, Conn. End	ALL	375-43597-000	375-46209-000	375-46338-000
5	1	Baffle, Pass, Back End	ALL	375-43596-000	375-46208-000	375-44337-000
6	4	Gasket, Pass Baffle and Head	ALL	075-49369-000	075-49361-000	075-49365-000
7	1	Heater, Cooler 280 Watt	ALL	025-22691-000	025-22692-000	025-22691-000
9	2	Bulb, Well	ALL	026-32328-000	026-32328-000	026-32328-000
10	-	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000	010-05997-000
	-	Insulation (1 1/2" x 49" x 65")	ALL	010-05998-000	010-05998-000	010-05998-000
11	2	Sensor, Water Temp.	ALL	025-29964-000	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000	013-03311-000	013-03311-000

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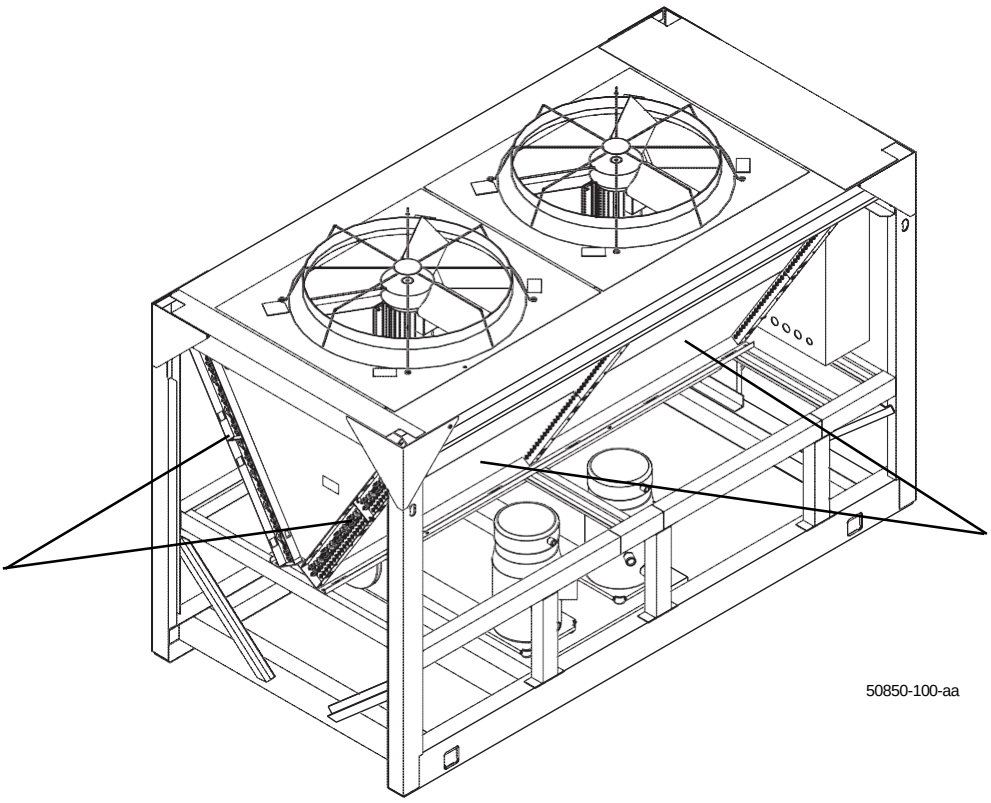
CONDENSOR COIL COMPONENTS



5

5

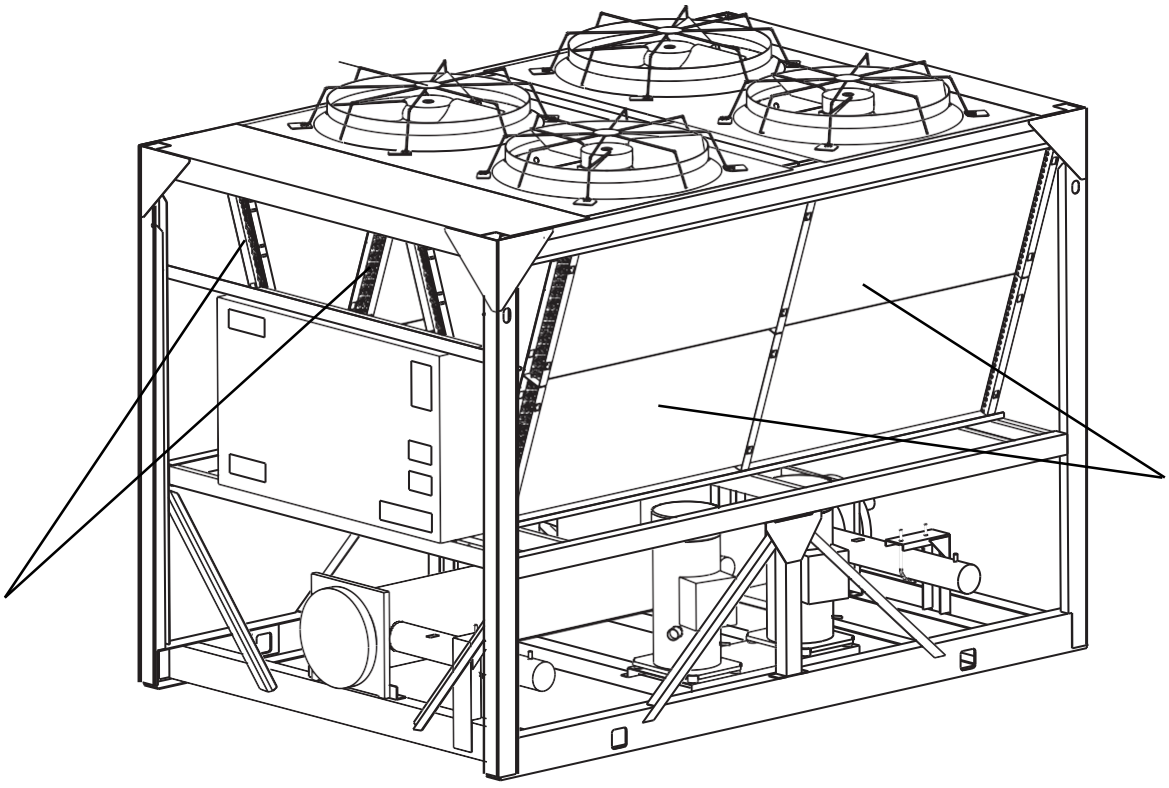


FIG. 2 – CONDENSER COIL LAYOUT (REF. TABLE 3, PAGE 9)

CONDENSOR COIL COMPONENTS (CONT'D)

TABLE 3 – CONDENSER COILS – YCAL0014, 0020, 0024 AND YCAL0030 (SEE FIG. 2, PAGE 8)

ITEM NUMBER	DESCRIPTION	POSITION	QTY	YCAL0014 & YCAL0020	YCAL0024	YCAL0030
[redacted]						
ALUNINUM FIN COILS						
5	Coil Module*	Both	4	375-46182-100	375-46182-200	375-46182-300
BLACK FIN COILS						
5	Coil Module*	Both	4	375-46183-100	375-46183-200	375-46183-300
PHENOLIC COILS						
5	Coil Module*	Both	4	375-46184-100	375-46184-200	375-46184-300
COPPER COILS						
5	Coil Module*	Both	4	375-46185-100	375-46185-200	375-46185-300

*Coil Module includes coil and headers.

TABLE 3 – CONDENSER COILS – YCAL0034, 0040, 0042, 0044, 0050, AND YCAL0060 (SEE FIG. 2, PAGE 8)

ITEM NUMBER	DESCRIPTION	POSITION	QTY	YCAL0034	YCAL0040, 0042 0044 & YCAL0050	YCAL0060
ALUNINUM FIN COILS						
5	Coil Module*	Both	8**	375-46182-300(4)	375-46182-400	375-46182-500
BLACK FIN COILS						
5	Coil Module*	Both	8**	375-46183-300(4)	375-46183-400	375-46183-500
PHENOLIC COILS						
5	Coil Module*	Both	8**	375-46184-300(4)	375-46184-400	375-46184-500
COPPER COILS						
5	Coil Module*	Both	8**	375-46185-300(4)	375-46185-400	375-46185-500

*Coil Module includes coil and headers.

**Unless otherwise noted in parenthesis behind part number.

TABLE 3 – CONDENSER COILS – YCAL0064, 0070, 0074 AND YCAL0080 (SEE FIG. 2, PAGE 8)

ITEM NUMBER	DESCRIPTION	POSITION	QTY	YCAL0064	YCAL0070	YCAL0074 AND YCAL0080

ALUNINUM FIN COILS

5	Coil Module*	Both	8	375-46182-600	375-45259-100	375-45259-100

BLACK FIN COILS

5	Coil Module*	Both	8	375-46183-600	375-45259-200	375-45259-200

PHENOLIC COILS

5	Coil Module*	Both	8	375-46184-600	375-45259-300	375-45259-300

COPPER COILS

5	Coil Module*	Both	8	375-46185-600	375-45259-400	375-45259-400

*Coil Module includes coil and headers.

FAN COMPONENTS

Service Note:
Fan Hub to Shaft Joint should be sealed with protective coating - factory uses RUST VETO 344 - a solvent type, rust preventative coating.

37970-01

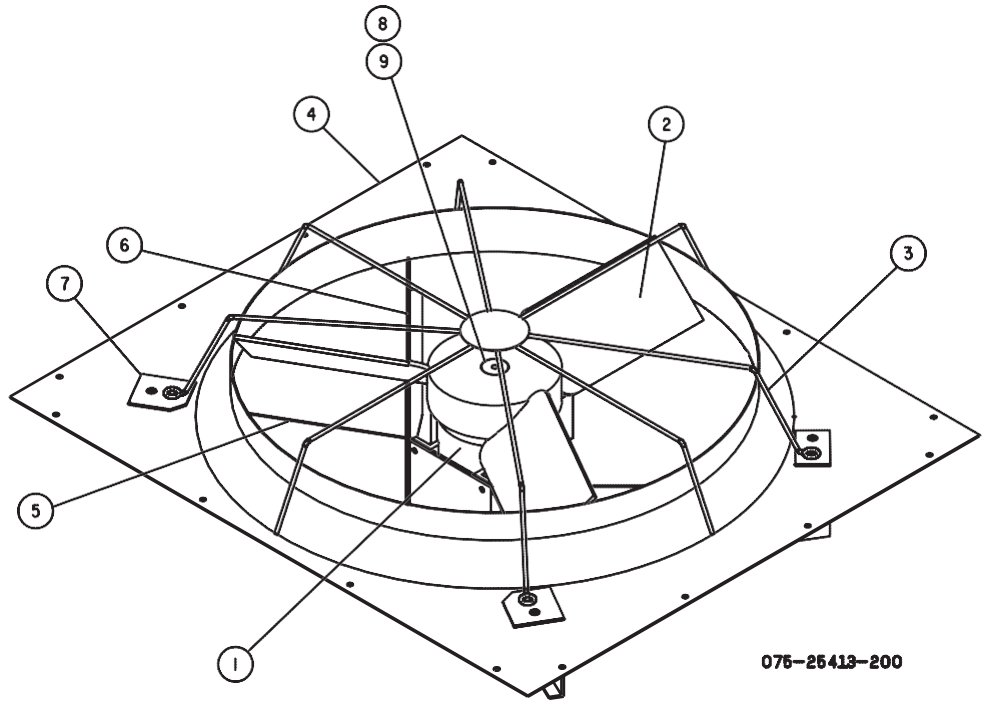


FIG. 3 – FAN COMPONENTS

TABLE 4 – FAN COMPONENTS

Service Note: Pin Location 52 in Model Number will be “X” for Standard Fan, or “L” for Low Noise Fan. See page 5.

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8" Ø SHAFT, 1160 RPM	LOW NOISE (OPTIONAL) 7/8" Ø SHAFT, 850 RPM
1[S]	Motor, Fan 2 HP (YCAL0014-YCAL0080)	-17	024-30900-002	024-30933-002
		-28	024-30900-002	024-30933-002
		-40	024-30900-004	024-30933-004
		-46	024-30900-001	024-30933-001
		-58	024-30900-003	024-30933-003
2[S]	Blade, (YCAL0014-YCAL0060)	ALL	026-35607-000	026-36579-000
	Blade, (YCAL0064-YCAL0080)		026-37577-000	026-37579-000
3	Guard, (YCAL0014-YCAL0060)	ALL	026-36790-000	026-37521-000
	Guard, (YCAL0064-YCAL0080)		026-35605-000	026-35605-000
4	Orifice, (YCAL0014-YCAL0060)	ALL	026-35070-000	
	Orifice, (YCAL0064-YCAL0080)		026-36141-000	
5	Support, Inner (YCAL0014-YCAL0060)	ALL	075-25413-018	
	Support, Inner (YCAL0064-YCAL0080)		075-25584-000	
6	Support, Outer (YCAL0014-YCAL0060)	ALL	075-25413-019	
	Support, Outer (YCAL0064-YCAL0080)		075-25583-000	
7	Plate, Reinf. (YCAL0014-YCAL0060)	ALL	075-25413-023	
	Plate, Reinf. (YCAL0064-YCAL0080)	ALL	075-25413-024	
8	Screw, Cap M8x125 (Not Shown)	ALL	021-18494-000	
9	Spacer, Fan Motor	ALL	075-29007-000	

[S] = Recommended Spare Parts

REFRIGERANT PIPING COMPONENTS

CHILLER MODEL YCAL – STYLE B

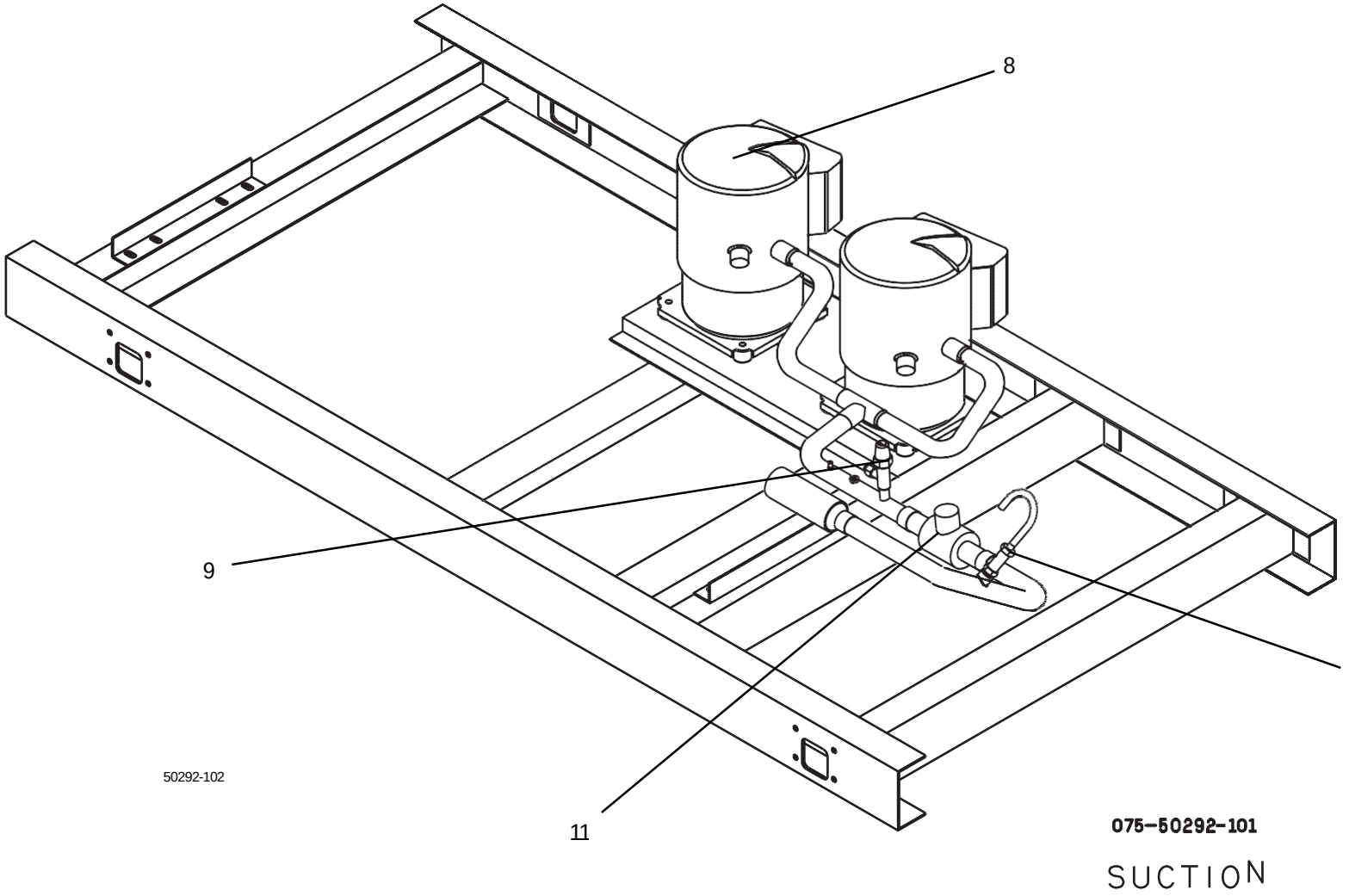


FIG. 4 – REFRIGERANT PIPING COMPONENTS - MODELS YCAL0014, 0020, 0024 AND 0030 SHOWN (REF. TABLE 5, PAGES 14 AND 15)